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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/924,320	08/07/2001	Mark Huang	P893 US	3586

28390 7590 05/18/2005  
MEDTRONIC VASCULAR, INC.  
IP LEGAL DEPARTMENT  
3576 UNOCAL PLACE  
SANTA ROSA, CA 95403

EXAMINER
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BAXTER, JESSICA R

ART UNIT	PAPER NUMBER
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3731

DATE MAILED: 05/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/924,320	HUANG, MARK	
	<b>Examiner</b>	<b>Art Unit</b>	
	Jessica R Baxter	3731	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 07 March 2005.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1,2,4-26 and 28-33 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,2,4-26 and 28-33 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                        | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                                    |

## DETAILED ACTION

### *Continued Examination Under 37 CFR 1.114*

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on January 7, 2005 has been entered.

### *Claim Rejections - 35 USC § 102*

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1, 4, 6-10, 12, 14, 17, 19-22, 24, 25 and 28-32 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,913,871 to Werneth et al.

Werneth discloses a balloon stent assembly comprising a balloon including an outer non-tacky first layer and an inner second layer (Column 5 lines 21-23); and a stent disposed on the balloon (stent 20); wherein the first layer flows into gaps formed in the stent when the balloon stent assembly is heated to a predetermined temperature (Column 5 lines 56-67), and retains the stent on the balloon during intravascular movement and the inner second layer does not flow into the gaps; wherein the outer and inner layers comprise a co-extruded laminate (Column 6 lines 64-67); wherein the outer layer comprises a functionalized material (Column 7 lines 6-67); wherein the outer layer comprises a first material of polyethylene and

Art Unit: 3731

the inner layer comprises a second material different from the first material (Column 7 lines 6-67).

Werneth discloses a method comprising mounting the stent onto the balloon, the balloon including an inner layer and an outer layer, the stent including gaps, the stent covering at least 55 percent of the balloon; sheathing the mounted stent and balloon with a sheath; heating the mounted stent and balloon; and flowing an outer layer of the balloon into the gaps formed in the stent while an inner layer of the balloon does not flow, and while the balloon is heated (Column 5 line 56-Column 6 line 67).

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 2, 16 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Werneth et al. '871 in view of WO 95/33422 to Stoltze et al.

Werneth discloses the claimed invention except for the claimed temperature range.

Werneth discloses that the device is heated to about 190°F (87.8°C) but that the temperature that it is heated to could be lower depending on the outer layer material (Column 6 lines 33-54 and Column 7 52-67). Stoltze teaches that the balloon may be heated to a temperature between 50 and 70°C for a certain period of time in order to soften the outside of the balloon (Page 14 lines 19-23). It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the device of Werneth with the

Art Unit: 3731

temperature range of Stoltze in order to soften the outside of the balloon to embed the stent in the balloon.

6. Claims 26 and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Werneth et al. '871 in view of WO 95/33422 to Stoltze et al.

Werneth discloses the claimed invention except for the step of pressurizing the balloon. Stoltze teaches that the balloon is pressurized to urge it towards the inner wall of the sheath and thus depress the stent into the balloon surface (Page 14 lines 23-28). It would have been obvious to one having ordinary skill in the art at the time the invention was made to pressurize the balloon of Werneth in order to help depress the stent into the surface of the balloon.

7. Claims 5 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Werneth et al. '871 in view of U.S. Patent No. 5,797,877 to Hamilton et al.

Werneth discloses the claimed invention except for the outer layer comprising a tie layer. Hamilton teaches including a tie layer in order to improve softness and foldability of the balloon (Column 4 lines 60-65). It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the device of Werneth with a tie layer in order improve the softness and foldability of the balloon.

8. Claims 11, 13 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Werneth et al. '871 in view of U.S. Patent No. 5,807,327 to Green et al.

Werneth discloses the claimed invention except for the stent retention force. Green teaches that the use of the material urethane will create a suitable retention force (Column 8 lines 55-60). It would have been obvious to one having ordinary skill in the art at the time

Art Unit: 3731

the invention was made to provide the device of Werneth with the stent retention force of Green in order to prevent slippage of the stent from the balloon prematurely.

***Response to Arguments***

9. Applicant's arguments with respect to claims 1-33 have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jessica R Baxter whose telephone number is 571-272-4691. The examiner can normally be reached on M-F 8:30AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anhtuan T Nguyen can be reached on 571-272-4963. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jessica R Baxter  
Examiner  
Art Unit 3731

  
jrb

  
**ANH TUAN T. NGUYEN**  
**SUPERVISORY PATENT EXAMINER**

5/16/05